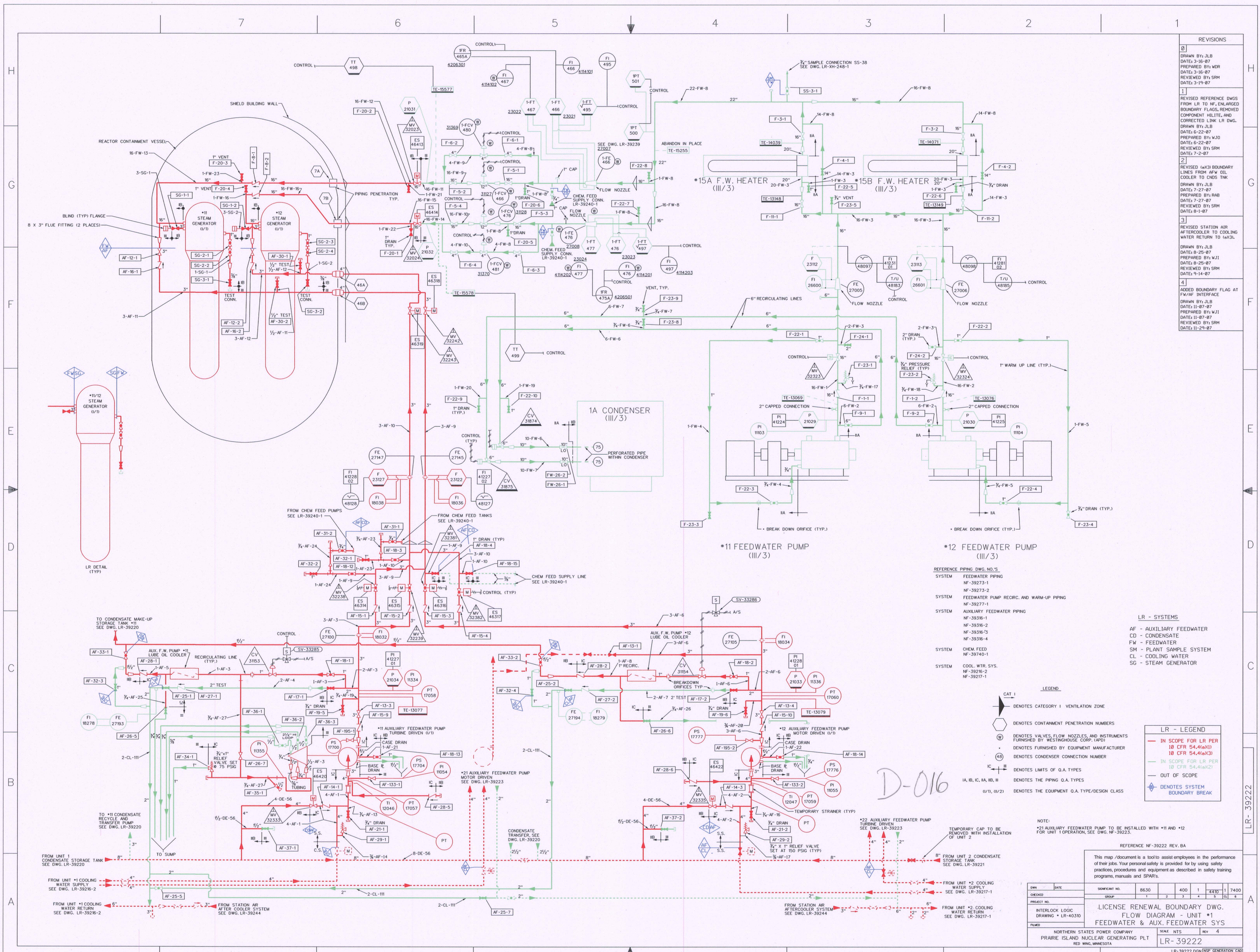
REVISIONS
0
DRAWN BY: JLB
DATE: 3-16-07
PREPARED BY: WDR
DATE: 3-16-07
REVIEWED BY: SRM
DATE: 3-19-07
1
REVISED REFERENCE DWGS FROM LR TO NF, ENLARGED BOUNDARY FLAGS, REMOVED COMPONENT HILITE, AND CORRECTED LINK LR DWG.
DRAWN BY: JLB
DATE: 6-22-07
PREPARED BY: WJO
DATE: 6-22-07
REVIEWED BY: SRM
DATE: 7-2-07
2
REVISED (aK3) BOUNDARY LINES FROM AFW OIL COOLER TO CNDS TNK
DRAWN BY: JLB
DATE: 7-27-07
PREPARED BY: RAB
DATE: 7-27-07
REVIEWED BY: SRM
DATE: 8-1-07
3
REVISED STATION AIR AFTERCOOLER TO COOLING WATER RETURN TO (aK3).
DRAWN BY: JLB
DATE: 8-25-07
PREPARED BY: WJI
DATE: 8-25-07
REVIEWED BY: SRM
DATE: 9-14-07
4
ADDED BOUNDARY FLAG AT FW/AF INTERFACE
DRAWN BY: JLB
DATE: 11-07-07
PREPARED BY: WJI
DATE: 11-07-07
REVIEWED BY: SRM
DATE: 11-29-07
#15A F.W. HEATER (III/3)
#15B F.W. HEATER (III/3)
1A CONDENSER (III/3)
PERFORATED PIPE WITHIN CONDENSER
#11 FEEDWATER PUMP (III/3)
#12 FEEDWATER PUMP (III/3)
REACTOR CONTAINMENT VESSEL
SHIELD BUILDING WALL
PIPING PENETRATION TYP.
#11 STEAM GENERATOR (I/1)
#12 STEAM GENERATOR (I/1)
#11/12 STEAM GENERATOR (I/1)
LR DETAIL (TYP)
ABANDON IN PLACE
SEE DWG. LR-39239
FLOW NOZZLE
CHEM. FEED SUPPLY CONN. LR-39240-1
6" RECIRCULATING LINES
* BREAK DOWN ORIFICE (TYP.)
FROM CHEM FEED PUMPS SEE LR-39240-1
FROM CHEM FEED TANKS SEE LR-39240-1
CHEM FEED SUPPLY LINE SEE LR-39240-1
TO CONDENSATE MAKE-UP STORAGE TANK #11 SEE DWG. LR-39220
AUX. F.W. PUMP #11 LUBE OIL COOLER
AUX. F.W. PUMP #12 LUBE OIL COOLER
RECIRCULATING LINE (TYP.)
#11 AUXILIARY FEEDWATER PUMP TURBINE DRIVEN (I/1)
#12 AUXILIARY FEEDWATER PUMP MOTOR DRIVEN (I/1)
#21 AUXILIARY FEEDWATER PUMP MOTOR DRIVEN SEE DWG. LR-39223
#22 AUXILIARY FEEDWATER PUMP TURBINE DRIVEN SEE DWG. LR-39223
TEMPORARY STRAINER (TYP)
TO #11 CONDENSATE RECYCLE AND TRANSFER PUMP SEE DWG. LR-39220
TO SUMP
CONDENSATE TRANSFER SEE DWG. LR-39220
FROM UNIT 1 CONDENSATE STORAGE TANK SEE DWG. LR-39220
FROM UNIT #1 COOLING WATER SUPPLY SEE DWG. LR-39216-2
FROM UNIT #1 COOLING WATER RETURN SEE DWG. LR-39216-2
FROM STATION AIR AFTER COOLER SYSTEM SEE DWG. LR-39244
FROM UNIT 2 CONDENSATE STORAGE TANK SEE DWG. LR-39221
FROM UNIT #2 COOLING WATER SUPPLY SEE DWG. LR-39217-1
FROM UNIT #2 COOLING WATER RETURN SEE DWG. LR-39217-1
TEMPORARY CAP TO BE REMOVED WITH INSTALLATION OF UNIT 2
D-016
REFERENCE PIPING DWG. NO.'S
SYSTEM FEEDWATER PIPING
NF-39273-1
NF-39273-2
SYSTEM FEEDWATER PUMP RECIRC. AND WARM-UP PIPING
NF-39277-1
SYSTEM AUXILIARY FEEDWATER PIPING
NF-39316-1
NF-39316-2
NF-39316-3
NF-39316-4
SYSTEM CHEM. FEED
NF-39740-1
SYSTEM COOL. WTR. SYS.
NF-39216-2
NF-39217-1
LR - SYSTEMS
AF - AUXILIARY FEEDWATER
CD - CONDENSATE
FW - FEEDWATER
SM - PLANT SAMPLE SYSTEM
CL - COOLING WATER
SG - STEAM GENERATOR
LEGEND
CAT I DENOTES CATEGORY I VENTILATION ZONE
DENOTES CONTAINMENT PENETRATION NUMBERS
DENOTES VALVES, FLOW NOZZLES, AND INSTRUMENTS FURNISHED BY WESTINGHOUSE CORP. (APD)
DENOTES FURNISHED BY EQUIPMENT MANUFACTURER
48 DENOTES CONDENSER CONNECTION NUMBER
IC III DENOTES LIMITS OF Q.A. TYPES
IA, IB, IC, IIA, IIB, III DENOTES THE PIPING Q.A. TYPES
(I/1), (II/2) DENOTES THE EQUIPMENT Q.A. TYPE/DESIGN CLASS
LR - LEGEND
IN SCOPE FOR LR PER 10 CFR 54.4(a)(1) 10 CFR 54.4(a)(3)
IN SCOPE FOR LR PER 10 CFR 54.4(a)(2)
OUT OF SCOPE
DENOTES SYSTEM BOUNDARY BREAK
NOTE:
*21 AUXILIARY FEEDWATER PUMP TO BE INSTALLED WITH *11 AND *12 FOR UNIT 1 OPERATION, SEE DWG. NF-39223.
REFERENCE NF-39222 REV. BA
This map /document is a tool to assist employees in the performance of their jobs. Your personal safety is provided for by using safety practices, procedures and equipment as described in safety training programs, manuals and SPAR's.
DWN
DATE
CHECKED
PROJECT NO.
INTERLOCK LOGIC DRAWING * LR-40310
FILMED
SIGNIFICANT NO. 8630 400 1 4410 1 7400
GROUP 1 2 3 4 5 CL 6
LICENSE RENEWAL BOUNDARY DWG.
FLOW DIAGRAM - UNIT #1
FEEDWATER & AUX. FEEDWATER SYS
NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND NUCLEAR GENERATING PLT
RED WING, MINNESOTA
SCALE NTS
REV 4
LR-39222
LR-39222.DGN [NSP GENERATION CAD]